

CLAIMS

What is claimed is:

1. An electro-optical device comprising:

a substrate having an electro-optical material disposed thereon; and

a plurality of wires including routing wire portions formed in a first region of the substrate outside of a second region of the substrate opposing the electro-optical material;

wherein the routing wire portion of each of the plurality of wires has a first portion and a second portion, the second portion having a smaller width than the first portion.

2. An electro-optical device according to Claim 1, further comprising:

a driver IC mounted in the first region of the substrate, and supplying output signals to individual members of the plurality of wires.

3. An electro-optical device according to Claim 1, further comprising:

a plurality of first electrodes and a plurality of second electrodes, the second electrodes being located on one side of the first electrodes, sandwiching the electro-optical material therebetween and extending in a direction for intersecting with the first electrodes,

wherein one of the first and second electrodes connected to the wires has more electrodes than the other .

4. An electro-optical device according to Claim 1, further comprising:

a pixel constructed by a plurality of sub-pixels individually corresponding to different colors; and

color filters corresponding to the respective sub-pixels.

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5. An electro-optical device according to Claim 1, wherein the plurality of wires have a first layer and a second layer, the second layer having a resistance value lower than that of the first layer, and the second layer is formed to correspond at least to the second portions of the wires.

6. An electro-optical device according to Claim 5, wherein the first layer comprises a metal oxide film, and the second layer comprises a metal film.

7. An electro-optical device according to Claim 6, further comprising an electrode formed on the substrate and used for applying a voltage to the electro-optical material, wherein the first layer is formed of the same layer as that of the electrode.

8. An electro-optical device according to Claim 5, wherein the second layer is formed outside of the first region where the wires and the driver IC are connected.

9. An electro-optical device according to Claim 1, wherein the second portions are substantially aligned.

10. An electro-optical device according to Claim 1, wherein the electro-optical material further comprises liquid crystal disposed between the substrate and another substrate attached together through a sealing member.

11. An electro-optical device according to Claim 10, wherein
the plurality of wires have a first layer and a second layer, the second layer having a resistance value lower than that of the first layer, and

the second layer is formed corresponding at least to the second portions of the wires and outside of a region of the substrate where the sealing member is formed.

12. An electro-optical device according to Claim 1, wherein the electro-optical material further comprises an Electro-Luminescence layer.

13. An electro-optical device comprising:
a substrate having an electro-optical material disposed thereon; and
a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region of the substrate opposing the electro-optical material;
wherein the routing wire portion of each of the plurality of wires has a first portion and a second portion; and
an interval of adjacent routing wire portions in the second portions is larger than an interval of the adjacent routing wire portions in the first portions.

14. Electronic equipment including an electro-optical device as a display unit thereof, the electro-optical device comprising:
a substrate having an electro-optical material disposed thereon; and

a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region of the substrate opposing the electro-optical material;

wherein the routing wire portion of each of the plurality of wires has a first portion and a second portion, the second portion having a width smaller than that of the first portion.

15. Electronic equipment according to Claim 14, further comprising

a driver IC mounted in the first region of the substrate, and supplying output signals to individual members of the plurality of wires.

16. Electronic equipment according to Claim 14, wherein the second portions are substantially aligned.

17. Electronic equipment including an electro-optical device as a display unit thereof, the electro-optical device comprising:

a substrate having an electro-optical material disposed thereon; and

a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region of the substrate opposing the electro-optical material;

wherein the routing wire portion of each of the wires has a first portion and a second portion; and

an interval of adjacent routing wire portions in the second portions is larger than an interval of adjacent routing wire portions in the first portions.

18. An inspection method for an electro-optical device including a substrate having an electro-optical material disposed thereon and a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region opposing the electro-optical material, wherein the routing wire portion of each of the wires has a first portion and a second portion, the second portion having a width smaller than that of the first portion, the inspection method comprising:

a step of bringing an inspection terminal into contact with the second portion of the routing wire portion in each of the wires;

a step of supplying a predetermined drive signal to the wires via the inspection terminal; and

a step of determining whether the electro-optical device is good or bad on the basis of an image displayed based on the drive signal.

19. An inspection method for an electro-optical device according to Claim 18, wherein

individual wires are brought into contact with all of a plurality of inspection terminals together in the step of bringing the inspection terminals into contact with the routing wire portions.

20. An inspection method for an electro-optical device according to Claim 18, wherein

the inspection terminals are substantially shaped like flat plates and are abutted against the wires to flex the inspection terminals to cause the inspection terminals and the wires to be in surface contact with each other in the step of bringing the inspection terminals into contact with the routing wire portions.